

# Liquid crystal oriented film, and preparation and use thereof

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Inventor: XIE PING (CN); ZHANG RONGBEN (CN); GU HAIWEN (CN)  
Applicant: INST OF CHEMISTRY CAS (CN)  
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## Abstract of CN1465653

The present invention relates to a liquid crystal photooriented film using polysilsesquioxans as base material, its composition material includes polysilsesquioxane whose side chain contains photosensitive group and its composition material, and the connection mode of the side chain and base body has two kinds of vertical connection type and side connection type. Said oriented layer can be made up by using polysilsesquioxane whose side chain contains photosensitive group and its composition material in the general solvent, for example toluene, xylene, ethyl alcohol or tetrahydrofuran solution by means of spin-coating process. The coated base plate after which is irradiated by polarized long-wave UV light ejected by optical system formed from ball mercury vapour lamp, quartz condensing prism and polarizer can produce vertical and planar two kinds of orientation effect with preinclined angle for induction, and said preinclined angle can be up to 6 deg.

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